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Jamaica, has been added to the Isaac Lea collection of Eocene and Oligocene mollusca. This collection now affords facilities for the paleontologist unequalled elsewhere.

Numerous specimens of birds, mammals and reptiles were received from various sources, including the Zoological Society of Philadelphia. These have been prepared in the taxidermical department. A pair of mounted specimens of the wild goat of Persia have been received on deposit from Mr. Lloyd Griscom.

Besides the services rendered by the Museum staff, the Curators are indebted to Dr. Philip P. Calvert, Mr. Erich Daecke and Mr. Carl Fenninger for valuable assistance in the Entomological department, as well as to the students of the Jessup Fund, Miss H. N. Wardle, Messrs. J. A. G. Rehn and Raymond Winter.

In importance the museum, research and lecture work of the year exceeds that of any other in the history of the society.

During the year the Mycological Club, Philadelphia Botanical Club, Anti-Tuberculosis Society, Pennsylvania Audubon Society, Delaware Valley Ornithological Club and American Ornithologists' Union have held their meetings in the Hall of the Academy.

The collections of the various departments have been studied during the year by many specialists from other cities who have visited the Academy, while material has been loaned to Paul Bartsch, C. D. Beadle, W. H. Dall, C. H. Eigenmann, D. G. Elliott, E. M. Walker, H. W. Fowler, J. B. Hatcher, J. C. Merriam, G. S. Miller, Jr., H. F. Osborne, C. V. Piper, J. N. Rose, S. N. Rhoads, C. W. Richmond, Robert Ridgway, T. W. Vaughan, Bryant Walker.

HENRY C. CHAPMAN,
ARTHUR ERWIN BROWN,
HENRY A. PILSBRY,
SAMUEL G. DIXON.

REPORTS OF THE SECTIONS.

MINERALOGICAL AND GEOLOGICAL SECTION.

The Section has suffered three peculiarly heavy losses by death this year. Mr. Lewis Woolman died March 13, 1903. He had been for about ten years a highly energetic promoter of the excursions and other activities of the Section. Theodore D. Rand died April 24, 1903. He had been an enthusiastic member and the principal founder

of the Section, and was its able Director from the beginning. Dr. Charles Schaeffer died November 23, 1903. He likewise was one of the early zealous members of the Section, and had been its skillful and diligent Recorder for about fifteen years.

Notwithstanding these severely crippling losses, the Section has kept up its meetings and field excursions with almost undiminished ardor. There have been nine meetings, with an average attendance of eight, and nine field excursions, with an average attendance of twenty-nine. At the meetings communications were made by Miss Emma Walter, on the Florissant (Col.) region; by Dr. Florence Bascom, on the geology of the neighborhood of Philadelphia; by Prof. Oscar C. S. Carter, on the old copper mines near the Perkiomen and on the climate of Manitoba; by Mr. S. Harbert Hamilton, on the geology of eastern Cuba, and on petroleum; by Mr. Lyman, on jade; by Mr. F. J. Keeley, on crystal fluid inclusions containing solids with Brownian movement, and on fossil bones and shells from a cave in the Cambrian limestone of Durham Furnace; by Messrs. Carter, Hamilton and Lyman, on the trap; besides a number of shorter communications. The field excursions visited: 1. The Cambrian, New Red and ancient gneiss rocks near Edge Hill and northeastward to the Pennypack; 2. Certain crystalline rocks near Westchester and eastward to Darby creek; 3. Crystalline rocks, schists and Cambrian near Pennypack creek; 4. The New Red and crystalline rocks of Buck Ridge proper and southward through the Neshaminy Gap; 5. Crystalline rocks near the Neshaminy from the Gap to Flushing; 6. The New Red section along the canal from New Hope to Point Pleasant; 7. The crystalline rocks and Cambrian sandstone of a cross-section of Buck Ridge near the Buck Hotel; 8. The New Red and trap near Pottstown; 9. The crystalline rocks with numerous minerals between Media, Mineral Hill, Blue Hill and Newtown Square. Some mineral specimens were obtained for the Academy's collection.

The interest shown in the meetings and in the field excursions seems amply to justify the encouragement given the Section by the Academy. Aside from the value of any original work done for the direct increase of the world's science, it is unquestionably useful to promote by these gatherings and discussions the love of the natural sciences. It is out of a large body of comparatively inconspicuous lovers of the natural sciences that issue, from time to time, the necessarily small, select percentage of devoted and able workers in that field, and also the generous benefactors of the Academy and kindred institutions. In addition, there is room for a feeling of satisfaction that something

not wholly unimportant has been accomplished toward the promotion of science.

The following officers have been elected for the year 1904:

<i>Director</i> ,	Benjamin Smith Lyman.
<i>Vice-Director</i> ,	George Vaux, Jr.
<i>Recorder and Secretary</i> ,	Miss Mary S. Holmes.
<i>Treasurer</i> ,	Miss Emma Walter.
<i>Conservator</i> ,	Frank J. Keeley.

BENJAMIN SMITH LYMAN,

Vice-Director.

THE BIOLOGICAL AND MICROSCOPICAL SECTION.

Nine regular and several informal meetings have been held during the year, showing increased interest among the members, who now number thirty-five. The Conservator reports that the instruments of the Section are in their usual good working order and have been in regular use during the year.

The following additions have been made:

Eighty-nine slides, principally rock and mineral sections, received from the Curators of the Academy.

Two slides of quartz with inclusions, presented by Mr. Hugo Bilgram.

One Zentmayer Army Hospital Microscope and outfit, purchased.

Two small Queen Microscopes with objectives, purchased.

One Demonstration Microscope, purchased.

One Acme, No. 3, Microscope stand, formerly the property of Mr. Woolman, purchased.

Among the verbal communications and papers the following may be mentioned: New Species of *Trachelomonas*, by Mr. T. C. Palmer; *Myxomycetes* and liquid inclusions in quartz, by Mr. Hugo Bilgram; stained diatoms and models of microscopes and accessories, by Mr. F. J. Keeley; butter making and various pathological subjects, by Dr. J. C. Morris; remarks on specimens obtained in his travels, by Mr. S. L. Shumo; photographs of diatoms, by Dr. T. S. Stewart; slides of diatoms, by Mr. W. B. Davis, Mr. John A. Shulze and Mr. C. S. Boyer.

The Section has lost by death Dr. Charles Shaffer, a learned and valued member, and Mr. Lewis Woolman, who by his genial activity had become the personal friend of every active member of the Academy.

The officers elected for the following year are as follows:

<i>Director</i> ,	J. Cheston Morris, M.D.
<i>Vice-Director</i> ,	T. Chalkley Palmer.
<i>Conservator</i> ,	F. J. Keeley.
<i>Recorder</i> ,	C. S. Boyer.
<i>Corresponding Secretary</i> ,	S. L. Schumo.
<i>Treasurer</i> ,	Thomas S. Stewart, M.D.

CHARLES S. BOYER,

Recorder.

CONCHOLOGICAL SECTION.

The Conservator respectfully reports that the increase of the collection during the year has been very satisfactory, as shown by the list of accessions to the Museum. The general condition of the cabinet is practically unchanged from last year, and no substantial improvements in the arrangement of material can be made until more cases are supplied. As it does not seem desirable to enlarge our exhibition series of shells, it is recommended that a number of cases in the form of stacks, and about as high as the cases in the library, be built to contain series which it is not advisable to exhibit, either from the small size of the shells, the external uniformity of large numbers of species, or other reasons. These stacks may be placed in an enclosed space on the upper gallery or, better, on the lower floor of the Museum.

In March and April of this year the Conservator made a conchological reconnaissance of portions of the Ozark uplift in western Arkansas and Indian Territory, and of western Texas. The collection made comprises about 660 lots of mollusks, 163 reptiles of 34 species, 300 sheets of plants, and small collections of fossils, fishes, etc. It is believed that this collection adds materially to our knowledge of the mollusks of the Southwest. The study of this material is not yet completed.

Other collections worked upon during the year have been received from Mr. Hirase, including a large number of new species and affording a great mass of valuable zoogeographic data. A collection obtained by Mr. Clarence B. Moore in western Florida, reported on by Mr. Vanatta, adds considerable to our knowledge of the molluscan fauna of the north shore of the Gulf of Mexico. Many smaller accessions have also been determined and reported upon.

The Conservator has completed systematic studies on the families

Urocoptidae and *Megaspiridae*, the results being published in the *Manual of Conchology*, of which 322 pages and 62 plates have been issued during this year.

Throughout the year Mr. Vanatta has rendered invaluable assistance in the work of the department.

Respectfully submitted,

H. A. PILSBRY,

Conservator.

THE ENTOMOLOGICAL SECTION.

The Section has received many valuable additions to its cabinets during the year about to close, the largest being the collection of lepidoptera presented by the heirs of Mr. Charles A. Blake. This is contained in 70 book-boxes and numbers about 6,000 specimens. Important collections of orthoptera have been purchased, to the number of 1,360. They came from New Mexico, Arizona, Costa Rica, Argentina, Japan and Mexico. Mr. Morgan Hebard has presented an interesting and valuable collection of orthoptera from Michigan, numbering over a thousand specimens. Prof. T. D. A. Cockerell has donated 596 hymenoptera from New Mexico, and Mr. Henry L. Viereck has added 1,879 insects from various parts of the United States. The total number of specimens received by purchase or donation was 16,597. Some of these were types of new species and genera and a considerable number were new to the collection. Nine new genera and 56 new species were described by members of the Section during the year. The greater portion of the material received has been relaxed, mounted, furnished with data labels and incorporated in the various collections. One hundred and twelve Schmitt boxes have been purchased and four tin moth and dust-proof cases to hold them. Ten meetings of the Section have been held with an average attendance of fourteen persons. Thirty verbal communications have been made at the meetings, and the proceedings of the meetings have been published in *Entomological News*. One member died and two associates have been elected. *Entomological News* and *Proceedings* of the Entomological Section has been completed to the end of volume fourteen, with 340 pages and 15 plates. The collections and library have been used to a greater extent than ever, both by students here and from other institutions.

At the annual meeting held December 17, the following were elected to serve as officers for 1904:

<i>Director</i> ,	Philip Laurent.
<i>Vice-Director</i> ,	H. W. Wenzel.
<i>Treasurer</i> ,	Ezra T. Cresson.
<i>Recorder and Conservator</i> ,	Henry Skinner.
<i>Secretary</i> ,	Frank Haimbach.

HENRY SKINNER,
Recorder.

THE BOTANICAL SECTION.

The Botanical Section reports that its meetings have been held regularly during the year, with a fair attendance of members.

A number of interesting and valuable communications have been made, many of which have been repeated before the general meetings of the Academy.

The Conservator reports that during the year considerable progress has been made on the work of arranging the collections. Special effort being directed to put in order the unmounted material which has accumulated in recent years, resulting in the poisoning of about 15,000 sheets, which have been mounted, numbered, catalogued and distributed in their proper places through the Herbarium.

Early in the summer new cases were erected in the center of the north room on the library floor. They are so arranged that their tops form two tables, each eighteen feet long by three feet broad.

This has added twenty-eight closets of twelve compartments each to the Herbarium space, which has resulted in relieving the overcrowded condition of a considerable portion of the collection.

During the year all of the Authophytes have been rearranged to conform to the family sequence of Engler and Prantl, commencing in the new cases above referred to, sufficient space being left to allow for additions to the families arranged in this room for some time to come.

The cases in the south room are, however, still much crowded, and will require additional cases for their relief.

Dr. Krout began, during the summer, the arrangement of the Mosses and Hepatics in the Academy's Herbarium. Thus far about 1,500 specimens having been put into pockets and mounted on sheets; these have been placed in cases in the south gallery room.

It is hoped to complete the arrangement of this portion of the collection during the coming year, so that it may be rendered available for study.

The additions to the Herbarium during the year have amounted to over 3,000 specimens; of these the Botanical Section has purchased from the income of the Redfield Fund 951—693 of these from Mr. A. A. Heller, collected by him in California during the past year, and containing a number of valuable additions in cotypes and specimens from original type localities. The remaining 258 specimens were purchased from Mr. Charles L. Pollard, collected by himself and Messrs. William and Dr. Edward Palmer, in the Province of Santiago, Cuba, during the early part of 1902; this collection also adds much of interest to the Herbarium in the way of new material.

The Academy has purchased 280 specimens of Mexican plants, collected by Mr. C. G. Pringle for 1901 and 1902.

The Academy's expedition to Arkansas, Indian Territory and western Texas early in the year, under Dr. Pilsbry, brought back about 300 sheets of plants, which will form an interesting collection from this region. The balance of the additions have been received as donations from sundry individuals, the most noteworthy being collections from Washington and Idaho, presented by Mr. C. V. Piper; from California and New Mexico, presented by Mr. C. F. Saunders; from the northwestern United States and British Columbia, presented by Dr. James Darrach, and a collection of Mosses from various parts of the United States, presented by Mrs. Anne Morrill Smith, with others, a detailed list of which will be found in the additions to the Museum.

The Conservator wishes to acknowledge assistance received in the arranging of the collections from Miss Ada Allen, assistant in the Herbarium, and Mr. Raymond Winter, a Jessup Fund beneficiary.

The Philadelphia Botanical Club has continued to hold its meetings in the Academy, its members having added about 300 specimens to the local Herbarium during the year.

At the meeting of the Section held Monday December 14, the following were elected as its officers to serve for the ensuing year:

<i>Director</i> ,	Benjamin H. Smith.
<i>Vice-Director</i> ,	Joseph Crawford.
<i>Recorder</i> ,	Dr. Ida A. Keller.
<i>Treasurer and Conservator</i> ,	Stewardson Brown.

STEWARDSON BROWN,

Conservator.

THE ORNITHOLOGICAL SECTION.

During the past year the Conservator has completed the arrangement of the mounted collection of water birds and Gallinaceæ in the new Ornithological gallery, four additional cases having been provided for their accommodation. Three other cases now about finished will permit of the transference of the Ostriches and Birds of Prey early in the coming year. The gallery was opened to the public on November 12, and has attracted much attention, as the specimens are displayed to far better advantage than formerly. Beside the labelling of the individual specimens, large explanatory cards have been prepared for the various families, giving their geographic distribution, number of species and some of the most striking characteristics.

The further systematic arrangement of the study collection of skins has been facilitated by the provision of five tin cases and two large wooden cases, so that the entire series is now preserved in modern moth-proof cases, except the Anatidæ, Tyrannidæ, Cuculidæ and Birds of Prey.

The overcrowded condition of several of the cases has also been relieved.

A fine series of California skins numbering about 700 specimens was purchased by the Academy early in the year. The collection illustrates many of the plumages of our Western birds not hitherto represented, and contains quite a number of geographic races new to the cabinet.

In return for aid in identifying the collection of birds in the Philadelphia Commercial Museums, the Conservator obtained a fine series of specimens from South America and Africa, of which the Academy was much in need.

Another valuable collection was presented by Mr. Adolf van der Wielen, and a fine collection of eggs of North Dakota birds was received from Dr. William E. Hughes.

The Delaware Valley Ornithological Club has added several specimens of the now nearly complete collection of local birds and nests presented some years ago.

All the material received during the year has been catalogued and labelled, making an addition of about 1,100 specimens.

The Delaware Valley Ornithological Club and the Pennsylvania Audubon Society have held their meetings in the building during the year, and on November 16-19 the American Ornithologists' Union

held their Annual Congress at the Academy, the meeting proving the largest in the history of the organization.

Much aid has been given during the year to ornithologists of other institutions, both by loan and by placing our material at the disposal of visiting students.

In the work of the department the Conservator is much indebted to Mr. J. A. G. Rehn for valuable assistance.

The officers elected for the ensuing year are:

<i>Director</i> ,	Spencer Trotter, M.D.
<i>Vice-Director</i> ,	George Spencer Morris.
<i>Secretary</i> ,	William A. Shryock.
<i>Recorder</i> ,	Stewardson Brown.
<i>Treasurer and Conservator</i> ,	Witmer Stone.

Respectfully submitted,

WITMER STONE,
Conservator.

The election of Officers, Councillors and Members of the Committee on Accounts to serve during 1904 was held with the following result:

PRESIDENT ,	Samuel G. Dixon, M.D.
VICE-PRESIDENTS ,	Arthur Erwin Brown, E. G. Conklin, Ph.D.
RECORDING SECRETARY ,	Edward J. Nolan, M.D.
CORRESPONDING SECRETARY ,	J. Percy Moore, Ph.D.
TREASURER ,	George Vaux, Jr.
LIBRARIAN ,	Edward J. Nolan, M.D.
CURATORS ,	Henry C. Chapman, M.D. Arthur Erwin Brown, Samuel G. Dixon, M.D.
	Henry A. Pilsbry, D.Sc.

COUNCILLORS TO SERVE THREE YEARS,

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C. Newlin Peirce,
Philip P. Calvert, Ph.D.

COMMITTEE ON ACCOUNTS,

Thomas Biddle, M.D.
Charles Morris,
Harold Wingate,
Samuel N. Rhoads,
Philip P. Calvert, Ph.D.

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¹ Vacancies unfilled out of respect to the memory of Dr. Charles Schaeffer, who was nominated for these offices.